

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L2	32421	"antimicrobial"	USPAT	OR	ON	2007/11/28 12:42
L3	32421	L2	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/28 12:42
L4	52	Alimet	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/28 12:42
L5	52	L4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/28 12:43
L6	91150	"formic acid"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/28 12:43
L7	43840	"butyric acid"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/28 12:43
L8	85612	"fumaric acid"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/28 12:43

EAST Search History

L9	97172	"lactic acid"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/28 12:44
L10	113355	"benzoic acid"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/28 12:44
L11	89574	"propionic acid"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/28 12:44
L12	297513	L6 or L7 or L8 or L10 or L11	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/28 12:44
L13	8300	L12 and L2	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/28 12:45
L14	4862925	food or water	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/28 12:45
L15	8195	L13 and L14	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/28 12:45

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NEWS 6 JUL 16 CAplus enhanced with French and German abstracts
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NEWS 19 SEP 13 INPADOCDB enhanced with monthly SDI frequency
NEWS 20 SEP 17 CA/CAplus enhanced with printed CA page images from 1967-1998
NEWS 21 SEP 17 CAplus coverage extended to include traditional medicine patents
NEWS 22 SEP 24 EMBASE, EMBAL, and LEMBASE reloaded with enhancements
NEWS 23 OCT 02 CA/CAplus enhanced with pre-1907 records from Chemisches Zentralblatt
NEWS 24 OCT 19 BEILSTEIN updated with new compounds
NEWS 25 NOV 15 Derwent Indian patent publication number format enhanced
NEWS 26 NOV 19 WPIX enhanced with XML display format

NEWS EXPRESS 19 SEPTEMBER 2007: CURRENT WINDOWS VERSION IS V8.2,
CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 19 SEPTEMBER 2007.

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SESSION
0.21 |
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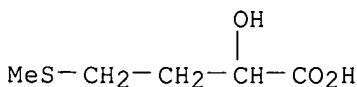
<http://www.cas.org/support/stnqgen/stndoc/properties.html>

=> s alimet
L1 14 ALIMET

=> s alimet/cn
L2 1 ALIMET/CN

=> d L2 str cn rn

I:2 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2007 ACS ON STN



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

CN Butanoic acid, 2-hydroxy-4-(methylthio)- (CA INDEX NAME)
OTHER CA INDEX NAMES:

CN Butyric acid, α -hydroxy- γ -(methylmercapto)- (4CI)
CN Butyric acid, 2-hydroxy-4-(methylthio)- (6CI, 8CI)

OTHER NAMES:
CN (+)-2-Hydroxy-4-(methylthio)butyric acid

CN α -Hydroxy- γ -(methylthio)butyric acid
CN α -Hydroxy-4-(methylthio)butyric acid
CN γ -(Methylmercapto)- α -hydroxybutyric acid
CN γ -(Methylthio)- α -hydroxybutyric acid
CN 2-Hydroxy-4-(methylmercapto)butyric acid
CN 2-Hydroxy-4-(methylthio)butanoic acid
CN 2-Hydroxy-4-(methylthio)butyric acid
CN Alimet .
CN AT 88
CN BIOX-A
CN Desmenidol
CN DL- α -Hydroxy- γ -methylmercaptobutyric acid
CN DL-2-Hydroxy-4-(methylmercapto)butanoic acid
CN DL-2-Hydroxy-4-(methylmercapto)butyric acid
CN DL-2-Hydroxy-4-(methylthio)butanoic acid
CN DL-2-Hydroxy-4-(methylthio)butyric acid
CN HMTBA
CN Hydan L
CN MHA acid
CN MHA-FA
RN 583-91-5 REGISTRY

=> file caplus
COST IN U.S. DOLLARS

| SINCE FILE ENTRY | TOTAL SESSION |
|------------------|---------------|
| 12.30 | 12.51 |

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PROCESSING COMPLETED FOR L4
L5      529 DUP REM L4 (1 DUPLICATE REMOVED)

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    23956025 PY<2004
    4233554 PRY<2004
L6      431 L4 AND (AY<2004 OR PY<2004 OR PRY<2004)

=> s microbes or antimicrobial
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        1 MICROBESES
    14935 MICROBES
        (MICROBES OR MICROBESES)
    74361 ANTIMICROBIAL
    5194 ANTIMICROBIALS
    75951 ANTIMICROBIAL
        (ANTIMICROBIAL OR ANTIMICROBIALS)
L7      89805 MICROBES OR ANTIMICROBIAL

=> s L5 and L7
L8      529 S L5
L9      5 L8 AND L7

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=> d 1-5 L9 ibib abs

L9 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2007:282510 CAPLUS
DOCUMENT NUMBER: 146:310933
TITLE: In-can and dry coatings containing
antimicrobial hydroxy analogs of methionine
INVENTOR(S): Abou-Nemeh, Ibrahim
PATENT ASSIGNEE(S): Novus International Inc., USA
SOURCE: PCT Int. Appl., 46pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|----------|-----------------|----------|
| WO 2007030409 | A2 | 20070315 | WO 2006-US34376 | 20060905 |
| WO 2007030409 | A3 | 20071115 | | |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
GE, GH, GM, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP,
KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN,
MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS,
RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ,
UA, UG, US, UZ, VC, VN, ZA, ZM, ZW | | | | |
| RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ,
CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA | | | | |
| WO 2007030423 | A2 | 20070315 | WO 2006-US34477 | 20060905 |
| WO 2007030423 | A3 | 20070419 | | |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
GE, GH, GM, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, | | | | |

KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN,
 MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS,
 RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ,
 UA, UG, US, UZ, VC, VN, ZA, ZM, ZW
 RW: AP, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW,
 EA, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, EP, AT, BE, BG, CH, CY,
 CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV,
 MC, NL, PL, PT, RO, SE, SI, SK, TR, OA, BF, BJ, CF, CG, CI, CM,
 GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: . US 2005-714389P P 20050906

OTHER SOURCE(S): MARPAT 146:310933

AB The invention provides coating compns. that comprise as antimicrobial agents methionine hydroxy analogs $RS(CH_2)mCH(OH)CO_2H$ ($R = Me$ or Et ; $M = 0, 1$ or 2) or their salts, esters or amides. The antimicrobial agents may be used as preservatives to inhibit a the growth of a broad spectrum of microorganisms in the coating compns.

L9 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2007:258206 CAPLUS

DOCUMENT NUMBER: 146:323686

TITLE: In-can and dry coating antimicrobial compositions having hydroxy analogs of methionine for paints

INVENTOR(S): Abou-Nemeh, Ibrahim

PATENT ASSIGNEE(S): Novus International Inc., USA

SOURCE: U.S. Pat. Appl. Publ., 21pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|-------|----------|-----------------|------------|
| ----- | ----- | ----- | ----- | ----- |
| US 2007053866 | A1 | 20070308 | US 2006-469967 | 20060905 |
| PRIORITY APPLN. INFO.: | | | US 2005-714387P | P 20050906 |

OTHER SOURCE(S): MARPAT 146:323686

AB The invention provides coating compns. that comprise antimicrobial agent comprising at least one hydroxy analog of methionine and a binder. The antimicrobial agents may be used as preservatives to inhibit a broad spectrum of microorganisms in the coating compns. For example, paint preservatives contained BIOX-ASL, which composes of 2-hydroxy 4-methylthio butanoic acid, formic acid, phosphoric acid and lactic acid.

L9 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:203593 CAPLUS

DOCUMENT NUMBER: 140:234733

TITLE: Carboxylic acid microbicides for food, feed and water
INVENTOR(S): Schasteen, Charles S.; Wu, Jennifer; Buttin, Pierre;
Hillebrand, Pieter; Scott, Fredrick R.; Vasquez-Anon, Mercedes

PATENT ASSIGNEE(S): Novus International, LLP, USA; Novus International, Inc.

SOURCE: PCT Int. Appl., 146 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------|-------|----------|-----------------|----------|
| ----- | ----- | ----- | ----- | ----- |
| WO 2004019683 | A2 | 20040311 | WO 2003-US27323 | 20030829 |
| WO 2004019683 | A3 | 20040415 | | |

| | | | |
|------------------------|---|-----------------|------------|
| W: | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM,
PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN,
TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW | | |
| RW: | GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
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FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR,
BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG | | |
| AU 2003268342 | A1 20040319 | AU 2003-268342 | 20030829 |
| EP 1531672 | A2 20050525 | EP 2003-749300 | 20030829 |
| R: | AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK | | |
| BR 2003013917 | A 20050705 | BR 2003-13917 | 20030829 |
| IN 2005CN00275 | A 20070330 | IN 2005-CN275 | 20050225 |
| MX 2005PA02307 | A 20051018 | MX 2005-PA2307 | 20050228 |
| PRIORITY APPLN. INFO.: | | US 2002-407050P | P 20020830 |
| | | US 2003-441384P | P 20030121 |
| | | US 2003-441584P | P 20030121 |
| | | US 2003-456673P | P 20030321 |
| | | US 2003-456732P | P 20030321 |
| | | US 2003-465549P | P 20030425 |
| | | WO 2003-US27323 | W 20030829 |

OTHER SOURCE(S): MARPAT 140:234733

AB Antimicrobial compns. and combinations for food, feed and water comprise carboxylic acids, preferably Alimet.

L9 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1988:220722 CAPLUS
 DOCUMENT NUMBER: 108:220722
 TITLE: Degradation of methionine hydroxy analog in the rumen of lactating cows
 AUTHOR(S): Jones, B. A.; Mohamed, O. E.; Prange, R. W.; Satter, L. D.
 CORPORATE SOURCE: US Dairy Forage Res. Cent., Univ. Wisconsin, Madison, WI, 53706, USA
 SOURCE: Journal of Dairy Science (1988), 71(2), 525-9
 CODEN: JDSCAE; ISSN: 0022-0302
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB Four lactating cows fitted with T-type cannulae in the proximal duodenum were utilized in a 4 + 4 Latin square design to study rumen microbial degradation of methionine hydroxy analog, a methionine supplement. A diet consisting of 55% concentrate and 45% corn silage was fed ad libitum 4 times daily. The 4 treatments were (1) control, no methionine hydroxy analog, (2) methionine hydroxy analog in the form of a Ca salt, (3) methionine hydroxy analog in the acid form, and (4) DL-methionine. The amino acids were incorporated into a grain mix, which was top-dressed. All diets were isonitrogenous. Twelve samples of duodenal digesta and fecal matter were collected during the last 3 days of each of the four 14-day periods. Samples were composited for anal. Microbes either altered or degraded 99% of the methionine hydroxy analog in the rumen, since recovery of the analog in duodenal digesta was <1% of the amount fed for both the acid form and the Ca salt.

L9 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1973:475714 CAPLUS
 DOCUMENT NUMBER: 79:75714
 ORIGINAL REFERENCE NO.: 79:12261a,12264a
 TITLE: Effect of methionine hydroxy analog on bacterial protein synthesis from urea and glucose, starch, or cellulose by rumen microbes, in vitro
 AUTHOR(S): Gil, L. A.; Shirley, R. L.; Moore, J. E.

CORPORATE SOURCE: Anim. Sci. Dep., Univ. Florida, Gainesville, FL, USA
SOURCE: Journal of Animal Science (Savoy, IL, United States)
(1973), 37(1), 159-63
CODEN: JANSAG; ISSN: 0021-8812

DOCUMENT TYPE: Journal
LANGUAGE: English

AB Addition of methionine hydroxy analog (MHA) or DL-methionine to media containing

glucose or cellulose as the substrate and urea as the N source accelerated bacterial N incorporation, NH₃ metabolism, and cellulose digestion rate.

Inorg. sulfate was as effective as MHA or methionine only when fermentation was prolonged beyond 18 hr with starch and 24 hr with cellulose. At 18 hr of fermentation, MHA supported more starch digestion than methionine or sulfate.

=> s mold

143990 MOLD

67940 MOLDS

L10 171540 MOLD
(MOLD OR MOLDS)

=> s L5 and L10

L11 529 S L5

L12 3 L11 AND L10

=> d 1-3 L12 ibib abs

L12 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1999:732961 CAPLUS

DOCUMENT NUMBER: 131:310064

TITLE: Nutrient formulation and process for feeding young poultry and other animals

INVENTOR(S): Ivey, Francis J.; Dibner, Julia J.; Knight, Christopher D.

PATENT ASSIGNEE(S): Novus International, Inc., USA

SOURCE: U.S., 20 pp., Cont.-in-part of U.S. Ser. No. 597,815, abandoned.

CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 4

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|----------|-----------------|----------|
| US 5985336 | A | 19991116 | US 1996-647719 | 19960524 |
| US 5928686 | A | 19990727 | US 1995-483297 | 19950607 |
| CA 2222515 | A1 | 19961219 | CA 1996-2222515 | 19960604 |
| CA 2222515 | C | 20070925 | | |
| WO 9639862 | A1 | 19961219 | WO 1996-US9075 | 19960604 |
| W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI | | | | |
| RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML | | | | |
| AU 9661539 | A | 19961230 | AU 1996-61539 | 19960604 |
| AU 723485 | B2 | 20000831 | | |
| EP 831718 | A1 | 19980401 | EP 1996-919116 | 19960604 |
| R: BE, DE, DK, ES, FR, GB, IT, LU, NL, MC, PT, IE | | | | |
| CN 1191469 | A | 19980826 | CN 1996-195727 | 19960604 |
| JP 11506617 | T | 19990615 | JP 1996-501482 | 19960604 |
| HU 9900850 | A2 | 19990728 | HU 1999-850 | 19960604 |
| HU 9900850 | A3 | 20000328 | | |

| | | | | |
|---------------|----|----------|----------------|----------|
| ZA 9604883 | A | 19970107 | ZA 1996-4883 | 19960607 |
| US 5976580 | A | 19991102 | US 1996-760881 | 19961206 |
| NO 9705691 | A | 19971205 | NO 1997-5691 | 19971205 |
| US 6329001 | B1 | 20011211 | US 1999-333249 | 19990615 |
| US 6210718 | B1 | 20010403 | US 1999-334968 | 19990617 |
| US 2004052895 | A1 | 20040318 | US 2001-792998 | 20010226 |
| US 6733759 | B2 | 20040511 | | |

PRIORITY APPLN. INFO.:

| | |
|----------------|-------------|
| US 1995-483297 | A2 19950607 |
| US 1996-597815 | B2 19960207 |
| US 1995-493297 | A 19950607 |
| US 1996-647719 | A 19960524 |
| WO 1996-US9075 | W 19960604 |
| US 1996-760881 | A3 19961206 |
| US 1999-334968 | A3 19990617 |

AB A nutrient formulation including moisture which is designed for use in poultry and other animals, and a method of feeding it which improves subsequent survival, cumulative feed efficiency and weight gain is disclosed. The method comprises making available for consumption ad libitum a high moisture material containing at least about 20% by weight water to the poultry or other animals before they are offered dry food ad libitum.

REFERENCE COUNT: 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1965:418769 CAPLUS

DOCUMENT NUMBER: 63:18769

ORIGINAL REFERENCE NO.: 63:3357d-f

TITLE: Naphthoquinone biosynthesis in molds. The mechanism for formation of mollisin

AUTHOR(S): Bentley, Ronald; Gatenbeck, Sten

CORPORATE SOURCE: Univ. of Pittsburgh, Pittsburgh, PA, USA

SOURCE: Biochemistry (1965), 4(6), 1150-6

CODEN: BICHAW; ISSN: 0006-2960

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The biosynthesis of mollisin, 8-dichloroacetyl-2,7-dimethyl-5-hydroxy-1,4-naphthoquinone, was studied by addition of radioactive substrates to solid agar cultures of *Mollisia caesia*. Labeled acetate and malonate were good precursors of mollisin. Methyl-labeled methionine, mevalonic-2-¹⁴C acid (or lactone), and labeled chloroacetic and bromoacetic acids were not utilized for mollisin biosynthesis. Degradation of mollisin samples from the acetate and malonate expts. indicated a fundamental role for the acetate plus polymalonate pathway in mollisin biosynthesis. The addition of Br- to growth media did not result in the diversion of the biosynthetic pathway to a bromo analog of millisin. A red oil, isolated during the purification of crude mollisin samples, contained 2,7-dimethyl naphthazarin.

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TITLE: Effect of selenate ions on the growth of *Neurospora crassa* in the presence of various sulfur sources

AUTHOR(S): Widstrom, Virginia R.

CORPORATE SOURCE: S. Dakota Agr. Expt. Sta., Brookings

SOURCE: Proc. S. Dakota Acad. Sci. (1961), 40, 208-12

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LANGUAGE: Unavailable

AB Wild type *N. crassa* was grown on Difco Bacto-*Neurospora* culture agar for the production of spores. The exptl. work was done in 125-ml. flasks containing 26 ml. liquid medium of Beadle and Tatum as modified by Ragland and Liverman, with added sulfur and selenate sources. The mold was

allowed to grow for 4 days at room temperature and then the mycelia were removed

and dried for 4 hrs. at 100° and weighed. Dry yields in control flasks containing the equivalent of 10-3M sulfate as K₂SO₄, methionine, homocysteine, and α -hydroxy- γ -methylthiobutyric acid were approx. equal (.apprx.60 mg./flask). With the addition of selenate ions (0.5-2.5 + 10-4M K₂SeO₄), the yields in dry mycelia dropped sharply. Growth was depressed to as little as 5 mg./flask.